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College of Engineering & Computer Science

Winter 2012

CEG 320/520: Computer Organization

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CEG 320/520 – COMPUTER ORGANIZATION
WINTER 2012

Instructor: Dr. Michael Raymer
391 Joshi
775-5110
michael.raymer@wright.edu

Time/Place: Monday & Wednesday, 2:45 – 4:00 pm, 145 Russ ctr.

Office Hours: Monday & Wednesday, 1:00 – 2:30 pm, *or by appointment*.

Textbook: Patt, Yale and Patel, Sanjay (2004). "Introduction to Computing Systems, 2nd ed.", McGraw Hill, ISBN 978-0072467505. *Required*.

Tentative Lecture Schedule:

Week	Topics	Reading
1	Introduction, representing data	Chs. 1 & 2
2	Digital logic, the Von Neumann model	Chs. 3 & 4
3	The LC-3 machine & simulator	Ch. 5
4	Assembly language programming	Chs. 6 & 7
4	Low level I/O	Ch. 8
–	Midterm Exam	—
5	Traps and Subroutines	Ch. 9
6	The stack, interrupts, and the C language	Chs. 10 & 11
7	Functions and recursion	Chs. 14 & 17
8	Memory and cache	Notes
9	Pointers and Arrays	Ch. 16
10	Dynamic memory, high-level I/O, review	Chs. 18 & 19
–	Final Exam: Tue. March 13, 3:15 – 5:15 pm	—

Grading: Midterm Exam = 30%
Final Exam = 35%
Programming Assignments (4) = 35%

90 – 100 = A; 80 – 89.9 = B;
70 – 79.9 = C; 60 – 69.9 = D;
< 60 = F
I *may* curve the final letter grades based on the overall distribution of scores.

Web Page: <http://wisdom.wright.edu> – Login using your CATS username and password. *Check this page often for announcements, assignments, and other important information.*

CEG 320/520 -- COMPUTER ORGANIZATION
POLICIES AND NOTES

I. Late Assignments

PROGRAMMING ASSIGNMENTS (LABS) are due by 11:55 pm on the due date. Late programming assignments will be accepted, but 10% of the total available points will be deducted for each day late. Labs are considered one day late after 11:55 pm on the due date. At 11:55 pm of each successive day (including weekends) the lab is considered an additional day late until turned in. *No points will be awarded for labs turned in more than one week (7 days) late.*

II. Academic Integrity

Discussion of course contents with other students is an important part of the academic process and is encouraged. However, it is expected that course programming assignments, homework assignments, and other course assignments will be completed **on an individual basis**. Students may discuss general concepts with one another, but may not, under any circumstances, work together on the actual implementation of any course assignment. If you work with other students on “general concepts” be certain to **acknowledge the collaboration** and its extent in the assignment. Unacknowledged collaboration will be considered dishonest. “Code sharing” (including code from previous quarters) is strictly disallowed. “Copying” or significant collaboration on any graded assignments will be considered a violation of the university guidelines for academic honesty. If the same work is turned in by two or more students, **all parties involved will be held equally accountable for violation of academic integrity**. You are responsible for ensuring that other students do not have access to your work: do not give another student access to your account, do not leave printouts in the recycling bin, pick up your printouts promptly, do not leave your workstation unattended, etc. If you suspect that your work has been compromised notify me immediately. NOTE: Failure to attend the first day of class, during which time I will explain these academic honesty policies in detail, does not excuse you from following these policies. If you have any questions about collaboration or any other issues related to academic integrity, please see me immediately for clarification.

III. Other notes

Students with disabilities or any additional needs are encouraged to set up an appointment at their convenience to discuss any classroom accommodations that may be necessary.